

Claim listing

The following claims represent the claim listing in this matter. No claims have been cancelled for any reason relating to any statute, law, requirement or substantive reason, but rather so that certain claims (82 to 91) could be examined.

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- 82. (new) A polymer-bead assembly comprising: a substantially planar assembly of beads wherein member beads encoded differently, said planar assembly being embedded in a polymer, wherein differently encoded beads have different biomolecules displayed on their surfaces and the encoding indicates the type of biomolecule displayed on particular beads.
- 83. (new) The polymer-bead assembly of claim 82 wherein encoding is by a unique chemical or physical characteristics that distinguishes particular beads.
- 84. (new) The polymer-bead assembly of claim 82 wherein the polymer is hydrophilic.
- 85. (new) The polymer-bead assembly of claim 82, wherein the biomolecules are ligands or receptors.
- 86. The polymer-bead assembly of claim 85, wherein ligands are peptides, proteins, nucleic acids (including DNA and RNA) or oligonucleotides.
- 87. The polymer-bead assembly of claim 82, wherein the planar assembly is arranged on a substrate.
- 88. The polymer-bead assembly of claim 87, wherein the substrate is a silicon chip.
- 89. The polymer-bead composite film of claim 82, wherein the beads have an average diameter of 0.5 μm to 100 μm .
- 90. The polymer-bead composite film of claim 82, wherein the polymer comprises cross-linked alkylacrylamide or hydroxyalkylacrylate hydrogel.
- 91. The polymer-bead composite film of claim 82, wherein the beads include magnetic beads.